

309.7 - Fracture Toughness of Ceramics

SRMs 2100a and 2100b Fracture Toughness of Ceramic are intended for verification of fracture toughness testing procedures and may be used in conjunction with [ASTM](#) Standard Test Method ASTM C1421-99 "Standard Test Methods for Fracture Toughness of Advanced Ceramics."

A unit of SRMs 2100a or 2100b consists of five hot-pressed silicon nitride flexure specimens. Each specimen is 3 mm x 4 mm x (45 to 47) mm. The SRM may be used with any fracture toughness test method, but is optimized for beam bending test configurations.

See certificate for fracture toughness value.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	2100a	2100b
Description	Fracture Toughness of Ceramic	Fracture Toughness of Ceramic
Unit Size	(5 bars)	(5 bars)

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- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only